



**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/10/2079

Dated: 07-10-2022

Dated of Test: 07-10-2022

To

**Deputy Director (QCD)**  
**Water and Sanitation Agency**  
**Faisalabad**  
**(M/s Madina RCC Pipe Manufacturing Factory Satayana Road, Faisalabad)**

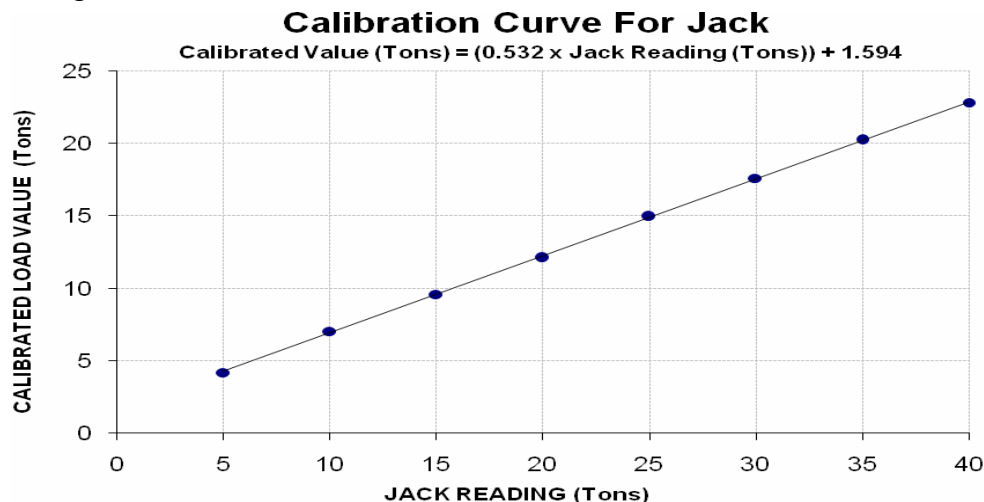
**Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE**  
**(MARK: TFL/10/2079)**

Reference to your Letter No. 122/DD (QCD)/WASA/2022, Dated: 01/10/2022 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 50 (Ton)**  
**Calibrated Range : Zero - 40 (Ton)**

Hydraulic Jack Reading (Ton)	5	10	15	20	25	30	35	40
Calibrated Load (kg)	3800	6400	8700	11000	13600	16000	18400	20750
Calibrated Load (Ton)	4.18	7.05	9.58	12.11	14.97	17.62	20.26	22.85

1000 kg = 1.1011 Ton



**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

Note:

- 1- You can See your reports On Internet in the following web site  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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**Water and Sanitation Agency**  
**Faisalabad**  
**(M/s Hadier RCC Pipe Manufacturing Factory Satayana Road, Faisalabad)**

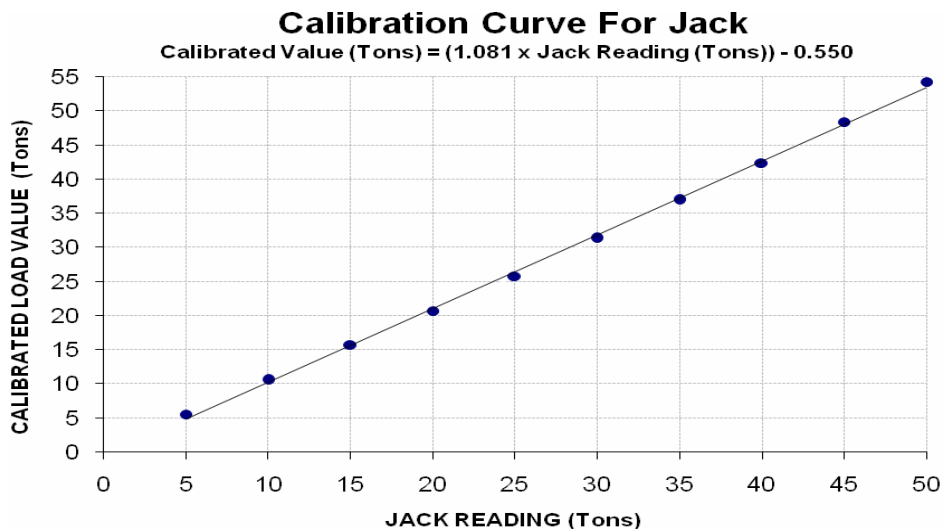
**Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE**  
**(MARK: TFL/10/2080)**

Reference to your Letter No. 122/DD (QCD)/WASA/2022, Dated: 01/10/2022 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 70 (Ton)**  
**Calibrated Range : Zero - 50 (Ton)**

Hydraulic Jack Reading (Ton)	5	10	15	20	25	30	35	40	45	50	
Calibrated Load	(kg)	5000	9600	14300	18800	23400	28500	33600	38500	44000	49300
	(Ton)	5.51	10.57	15.75	20.70	25.77	31.38	37.00	42.39	48.45	54.28

1000 kg = 1.1011 Ton



**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
 Project Manager  
 MS Tower Developers  
 Construction of MS Tower at Plot 450, 451 Johar Town Lahore

Reference # CED/TFL **2081** (Dr. Ali Ahmed)

Dated: 07-10-2022

Reference of the request letter # MST/BCC/UET/2022/S-014

Dated: 07-10-2022

**Tension Test Report** (Page -1/1)

Date of Test 07-10-2022

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.356	3	0.365	0.11	0.105	3300	5000	66200	69480	100200	105300	1.00	12.5	SJ Steel
2	0.370	3	0.372	0.11	0.109	3400	5100	68200	68900	102200	103400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S Muhammad Construction Company  
Realince Cotton & Spinning Mill  
AC Plant Civil Work 4 No's

Reference # CED/TFL **2087** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 07-10-2022  
Dated: 07-10-2022

**Tension Test Report** (Page -1/1)

Date of Test 07-10-2022  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	10	9.46	0.12	0.109	-----	4800	-----	-----	88184	97100	1.20	15.0	
2	0.368	10	9.43	0.12	0.108	-----	4800	-----	-----	88184	97800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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